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               A SURVEY OF MATHEMATICAL PROGRAMMING IN THE SOVIET UNION (BIBLI--ETC(U)
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A SURVEY OF

MATHEMATICAL PROGRAMMING

IN THE

SOVIET UNION

(BIBLIOGRAPHY)

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PREFACE

This bibliography contains nearly 400 entries based upon the author's review of the translated abstracts of over 5000 Soviet articles and books on Mathematical Programming. It is evident that a significant amount of work has been accomplished in this area by the Soviets over the last 15 years. The attention the Soviets give to Mathematical Programming is compatible with a philosophy of optimizing the use of resources to the greatest extent practicable.

The bibliography is a very subjective one and may not be proportionally representative of the activity within the various subject areas. It is arranged according to the accepted Mathematical Programming categories with survey works containing material in several categories grouped under the heading of Mathematical Programming (General). Both theoretical works and applications such as military, scientific, economic and industrial have been included. An attempt was made to select items already translated (i.e. cover to cover) or items that are available (untranslated) through commercial distributors. The reader may be able to identify certain journals worth pursuing on a regular basis. The citations given reflect all the publication information known to the author. In some cases this information is incomplete. Also, in the interest of brevity, the material is only alphabetized according to the first author of the reference.

Finally, it should be stated what is not included in this bibliography. None of the other areas closely related to Mathematical Programming were reviewed. Specifically this includes Unconstrained Optimization, Optimal Control Theory, Game Theory and the like. These are important topics. Some material on these topics does appear in this bibliography where there is an emphasis on Mathematical Programming as well.

I hope this bibliography will enable the reader to gain a better appreciation not only of the Soviet's work, but of the major importance of Mathematical Programming as a model and tool for aiding optimal decision-making in the presence of the increasingly important emphasis on resource constraints.

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J. L. NOYES
17 April 1980
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